

DERWENT-ACC-NO: 1986-249125

DERWENT-WEEK: 200152

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TITLE: Formation and degreasing of heat resisting
formed body - by forming formed body to be sintered and
removing binder simultaneously

PATENT-ASSIGNEE: SUMITOMO HEAVY IND LTD [SUMH]

PRIORITY-DATA: 1985JP-0016462 (February 1, 1985)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE |
|----------------|----------------|----------|
| PAGES MAIN-IPC | | |
| JP 61177301 A | August 9, 1986 | N/A |
| 004 N/A | | |

APPLICATION-DATA:

| PUB-NO | APPL-DESCRIPTOR | APPL-NO |
|------------------|-----------------|----------------|
| APPL-DATE | | |
| JP 61177301A | N/A | 1985JP-0016462 |
| February 1, 1985 | | |

INT-CL (IPC): B22F000/40, C04B035/06

ABSTRACTED-PUB-NO: JP 61177301A

BASIC-ABSTRACT:

Mixt. of heat resistant material powder and binder is preformed and all preform surfaces are coated with substance to be removed by heating or diminished pressure. Coating preform is then press formed in pressure vessel by high isostatic pressure and successively allowed to come into contact with supercritical fluids or fluids liquified by pressure to elute and to remove binder in formed body.

Heat resistant material is metal, metal oxide, ceramics, etc. Binder and coating substance may use higher alcohol, fatty acid polyethylene,

etc. Fluids
may use CO2 or fluorohydrocarbon. Isostatic pressure is 100-1000
kg/cm2.

USE - Fluids may be used for bath formation and degreasing of formed
body,
process may be shortened and appts. may be simplified.

ADVANTAGE - Coated preform is then press formed in pressure vessel by
high
isostatic pressure, and successively allowed to come into contact
with
supercritical fluids or fluids liquified by pressure to elute and to
remove
binder in formed body.

Heat resistant material is metal, metal oxide, ceramics, etc. Binder
and
coating substance may use higher alcohol, fatty acid polyethylene,
etc. Fluids
may use CO2 or fluorohydrocarbon. Isostatic pressure is 100-1000
kg/cm2.

CHOSEN-DRAWING: Dwg.0/3

TITLE-TERMS: FORMATION DEGREASE HEAT RESISTANCE FORMING BODY FORMING
FORMING
BODY SINTER REMOVE BIND SIMULTANEOUS

DERWENT-CLASS: A81 M22 P53

CPI-CODES: A12-W12F; A12-W12G; M22-H03C;

UNLINKED-DERWENT-REGISTRY-NUMBERS: 1066U

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0231 0239 1996 2022 2198 2200 2682 2728 3267 2729 3314
3316

Multipunch Codes: 014 04- 041 046 047 23& 231 236 250 359 445 47& 477
52& 54&
57& 609 678 688 724

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1986-107299

Non-CPI Secondary Accession Numbers: N1986-186108